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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/770,399	02/04/2004	Atsuhiro Takagi	110815.01 2740		
25944	7590 12/16/2004		EXAMINER		
OLIFF & BE	RRIDGE, PLC	BROOKE, MICHAEL S			
	_ -	ARTUNIT	PAPER NUMBER		
ALEXANDRIA, VA 22320			2853		
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT PAPER NUMBER		

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		10/770,39		TAKAGI ET AL.				
		Examiner	-	Art Unit				
		Michael S.	Brooke	2853				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🔲	Responsive to communication(s) filed on _	·						
2a) <u></u> □	This action is FINAL . 2b) ☐ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims		,					
4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 12-16 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 1-11 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Application	on Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>04 February 2004</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/983,958. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date		4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate	ГО-152)			

Art Unit: 2853

DETAILED ACTION

Election/Restrictions

In view of the allowable subject matter in Claims 1 and 12, the restriction requirement is withdrawn.

Claim Objections

Claims 1-11 objected to because of the following informalities:

- Claim 1 recites that "protrusions that each has a thickness of the surface electrodes and is provided on the surface of the piezoelectric actuator where the surface electrodes are provided." The protrusions are not provided where the actuators are provided; otherwise they would occupy the same physical space. The claim should be amended to recite "protrusions that each has a thickness of the surface electrodes and is provided on the surface of the piezoelectric actuator at a location corresponding to the surface where the surface electrodes are provided."
- In claim 2,the term "beams" should be replaced with "lands."
 Appropriate correction is required.

Allowable Subject Matter

Claims 12-16 are allowed.

Claims 1-11 are objected to, but would be allowable if rewritten to overcome the objections.

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The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach protrusions, having the same thickness as the surface electrodes, provided on the surface of the piezoelectric actuator between the surface electrodes (claim 12) or in a location corresponding to the surface electrodes (claim 1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael S. Brooke whose telephone number is 571 272-2142. The examiner can normally be reached on M-F 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael S. Brooke Primary Examiner Art Unit 2853

MSB 12/12/04